

Mr. Richard B. Mull
Corporation Composition
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Dear Dick:

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Enclosed is a copy of [REDACTED] talk given in Washington, D. C., at the March Research and Engineering Council conference on computerized typesetting. As you will note, hyphenless justification is only a part of a system being developed by the Central Intelligence Agency. The computer programs are now being written but are not yet operational. Program specifications and computer block diagrams for the justification routines are complete and are aimed at the particular capability of the Photon 513. The 513 is capable of producing set size changes from 6 to 13 set in half set increments. We will change set sizes to one full set above and below "normal," for any font, in half set increments. Justification arithmetic will be performed for the five set sizes simultaneously and each line will be "overset" before the selection, by the computer, of the production set size. When a choice of set sizes occurs for a line the computer will select as follows:

1. First choice - normal
2. Second choice - normal minus .5 set
3. Third choice - normal plus .5 set
4. Fourth choice - normal minus 1.0 set
5. Fifth choice - normal plus 1.0 set.

On the basis of tests it has been determined that the majority of the lines will be produced (at 20 picas, 10 point) at choices 1, 2, and 3. Choice number 4 will occur approximately one line in 200, choice number 5, one line in 700.

For purposes of computer arithmetic the 5 hypothetical lines are converted to a linear scale which represents the range, in relative values, the overlapped lines encompass.

Mr. Richard B. Mull, Western Printing and Lithographing Company

Ideally it would be best to have a method of infinite set size variation in a photocomposing device, but we know of none with this capability.

Thank you for your interest and I hope this information is helpful.

Very truly yours,

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Chief
Printing Services Division

Enclosure

CONCURRENCE:

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